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SOV/137-58-9-19565

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 205 (USSR)

AUTHORS: Fayzullin, F.F., Kochman, E.D.

TITLE: Oscillographic Investigation of Anodic Behavior of Copper in NaOH Solutions (Otsillograficheskoye issledovaniye anodnogo povedeniya medi v rastvorakh NaOH)

PERIODICAL: Uch. zap. Kazansk. un-ta, 1957, Vol 117, Nr 2, pp 158-162

ABSTRACT: An investigation of supplementary data permitting the reproduction of the mechanism of the oxidation of Cu in NaOH solutions and the establishment of the stages of the process. Oscillograms were obtained during the anodic polarization of Cu in 1N and 10N NaOH at 25, 45, and 65°C. The electrodes were prepared by the deposition of Cu on Pt wire. It is established that the primary product on the surface of Cu in NaOH, without stirring, is  $\text{Cu}_2\text{O}$ ; in dilute solutions at low temperatures a layer of  $\text{Cu}(\text{OH})_2$  forms on top of the layer of  $\text{Cu}_2\text{O}$ ; at 45° and above some CuO is formed; in concentrated NaOH at 25°,  $\text{Cu}_2\text{O}$  is covered with a layer of  $\text{Cu}(\text{OH})_2$ , and CuO is formed only in small amounts; at elevated temperature, CuO alone is formed. A possible mechanism of the process is offered. V.G.  
1. Electrodes--Preparation 2. Copper--Polarization 3. Sodium hydroxides  
--Performance 4. Copper oxide

Card 1/1

FAYZULLIN, F.P.; KOCHMAN, E.D.

Oscillographic study of the cathode reduction of oxide films on copper in a NaOH solution. Uch. zap. Kas. un. 117 no.9:193-197 '57.  
(MIRA 13:1)

1. Kasanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.  
Kafedra fizicheskoy khimii.  
(Metallic oxides)

KOCHMAN, E.D.

Voltamperograph. Zhur. fis. khim. 35 no.1:214-216 Ja '61.  
(MIRA 14:2)

1. Kazanskiy khimiko-tekhnologicheskii institut im. S.M. Kirova.  
(Electrochemistry)

KOCHMAN, E.D.

Electron beam volt-ampereograph. Izv.vys.ucheb.zav.; khim.i khim.  
tekh. 5 no.1:166-170 '62. (MIRA 15:4)

1. Kazanskiy khimiko-tekhnologicheskii institut imeni Kirova,  
kafedra neorganicheskoy khimii.  
(Electrochemistry) (Millivoltmeter)

VOZDVIZHNSKIY, G.S.; KOCHMAN, E.D.

Current-voltage investigation of the anodic behavior of zinc in  
aqueous solutions. Trudy KHITI no.30:240-252 '62. (MIRA 16:10)

ACCESSION NR: AT4043082

S/0000/64/000/000/0360/0375

AUTHOR: Vozdvizhenskiy, G. S., Kochman, E. D.

TITLE: Analysis of the anodic behavior of Zn in aqueous solutions from voltampere graphs

SOURCE: Mezhevuzovskaya konferentsiya po anodnoy zashchite metallov ot korrozii. 1st, Kazan, 1961. Anodnaya zashchita metallov (Anodic protection of metals); doklady\* konferentsii. Moscow, Izd-vo Mashinostroyeniye, 1964, 360-375

TOPIC TAGS: zinc electrode anodic oxidation, volt-ampere graph method, phosphoric acid electrolyte, alkali solution electrolyte, chromic acid electrolyte, zinc sulfate electrolyte, electrode potential variation curve, adsorbed oxygen activating effect, anodic coating type, electrode surface treatment, zinc corrosion, anodic oxidation

ABSTRACT: The anodic behavior of electrolytic sheet Zn electrodes ( $0.5-1 \text{ cm}^2$ ), previously annealed at  $400^\circ\text{C}$ , in  $\text{ZnSO}_4$  (2N),  $\text{KOH}$  (2N, 5N),  $\text{H}_3\text{PO}_4$  (10N) and  $\text{H}_2\text{CrO}_4$  (200 g/l) solutions was studied from volt-ampere graphs plotted automatically and photo-recorded as current density-potential curves. The authors used an original instrument, previously described, and the results obtained with their new technique for a wide range of electrode potential variations confirmed some results of older studies using different

Card

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ACCESSION NR: AT4043082

methods. The new technique served to establish the presence of an instantaneous current density jump in  $\text{ZnSO}_4$  due to the activating effect of adsorbed oxygen, the formation of two types of film coatings (dark gray and white) during Zn polarization in  $\text{ZnSO}_4$ , the complex character of the initial current density peak for KOH (related to formation of oxides at various hydration levels) and the variance in the pattern of polarization curves obtained for  $\text{H}_3\text{PO}_4$  and various methods of treating the electrode surface. Orig. art. has: 12 graphs and 3 equations.

ASSOCIATION: None

SUBMITTED: 13Mar64

ENCL: 00

SUB CODE: MM

NO REF SOV: 022

OTHER: 010

Card

2/2



VOZDVIZHENSKI', G.S.; KOCHMAN, E.D.

Voltamperographic studies of the anodic dissolution and passivation of zinc in alkaline solutions. Zhur. fiz. khim. 39 no.3:657-663 Mr '65.  
(MIRA 18:7)

1. Kazanskiy khimiko-tekhnologicheskii institut.

ACC NR: AP6029073

SOURCE CODE: UR/0413/66/000/014/0130/0130

INVENTOR: Kochman, E. D.; Kravtsova, R. I.; Golovanova, S. K.

ORG: None

TITLE: A method of electrolytic cadmium plating. Class 48, No. 184090 [announced by the Kazan Chemical Engineering Institute imeni S. M. Kirov (Kazanskiy khimiko-tehnologicheskiy institut)]

SCURCE: Izobret prom obras tov zn, no. 14, 1966, 130

TOPIC TAGS: cadmium, electrolytic deposition, metal plating

ABSTRACT: This Author's Certificate introduces a method of electrolytic cadmium plating from electrolytes based on cadmium sulfate with the addition of ethylenediamine and joiner's glue. High quality coatings are produced by deposition from an electrolyte containing complex compounds of cadmium with pyrophosphate having the following composition: cadmium sulfate ( $\text{CdSO}_4 \cdot 2.5\text{H}_2\text{O}$ )—26 g/l; potassium pyrophosphate ( $\text{K}_2\text{P}_2\text{O}_7 \cdot 3\text{H}_2\text{O}$ )—200 g/l; joiner's glue—1 g/l; ethylenediamine (20% aqueous solution)—20 ml/l. The plating is done at a current density of 0.5–1.0 a/dm<sup>2</sup> and a temperature of 25–60°C.

SUB CODE: 11, 07/ SUBM DATE: 15Jun64

Card 1/1

UDC: 621.357.7:660.738

DRYS, Boleslaw; KOCHMAN, Isabella

Thermal conductivity and expansion of hardened cast resins. Przegl  
elektrotechn 39 no.8:284-287 Ag '63.

1. Zaklad Materialoznawstwa Elektrycznego, Instytut Elektrotechniki,  
Warszawa.

FOCIBAN, JOSEF.

Teplna mechanika; ucelni text pro vyssi strojnicko skoly.  
(2. nezmenene vyd.) Praha, Statni pedagogicke nakl., 1954. 270 p. (Heat  
mechanics; a textbook for higher schools of mechanical engineering. 2d unrev. ed  
bibl., diagrs., graphs (part fold. in pocket) , index)

SOURCE: East European Accessions List (EEAL), IC, Vol. 5, No. 3. March 1956

**KOCHMAN, Josef**

*Erysiphe communis* (Wall.) Link on sugar beets in Poland. Postepy  
nauk roln 8 no.1:21-36 '61. (KRAI 10:8)

1. Zaklad Fitopatologii Szkoly Glownej Gospodarstwa Wiejskiego,  
Warszawa.

(Sugar beets) (*Erysiphe communis*)

Am

KICHMAN (J.). *Badja biologiczne nad porostem Wierzy-  
Pustelnikium salicisporum* (All. et Tuck.) Lind. [Biological  
studies on the Willow weevil fungus *Pustelnikium salicisporum*  
(All. et Tuck.) Lind.]. *Mém. Inst. Nat. Pologne d'Écon. Rur.  
d'Polawy*, v. 2, pp. 353-378, 1 pl., 3 figs., 1929. [English  
summary. Received December, 1931]

In giving a detailed account of willow weevil (*Pustelnikium salicisporum*) [R.A.M., ix, p. 603] in Poland, the author states that he found numerous mature perithecia of its perfect stage (*Perithecia chloropora*) on dead twigs on the ground, while on twigs remaining attached to the trees perithecia are formed much less abundantly; he also obtained perithecia on cut twigs which he kept over winter under conditions closely similar to natural outdoor wintering. Germination tests showed that the ascospores are endowed with much greater vitality than the conidia: in twelve hours in a drop of water practically the whole of the former had germinated and produced hyphae five times the length of the spores, while comparatively few of the conidia had begun germinating in the same period of time.

A description is also given of the cultural characters of *P. salicisporum* on various media, among which one composed of 1% per cent. (by weight) agar, 0.5 per cent K<sub>2</sub>HPO<sub>4</sub>, 0.25 per cent.

MgSO<sub>4</sub>, 0.5 per cent. NH<sub>4</sub>NO<sub>3</sub>, 4 per cent. glucose, and extract of willow twigs and dry leaves, was found to be the most suitable. On this medium the conidia germinated within 12 hours and produced cultures which in a few days took on an olive-green, velvety appearance, with a darker centre. Conidia (in all respects similar to those formed in nature) were produced in abundance, each conidiophore abducting from two to several conidia, while in nature only one conidium is usually formed from each conidiophore. The optimum temperature for growth was 20° C.; when transferred to a temperature of 32° the cultures continued to grow very slowly, but fresh inoculations did not develop at that temperature; the fungus also grew, although extremely slowly, at temperatures between 3° and -2°. The organism develops within a very wide range of hydrogen-ion concentrations, namely pH 4.4 to 9, with an optimum at 6.

The author succeeded in obtaining the conidial stage in cultures from single ascospores, but failed to obtain mature perithecia in cultures raised from the *Fusicladium* conidia, though he observed the formation of basidia which may have been the immature perithecia [cf. *ibid.*, viii, p. 815].

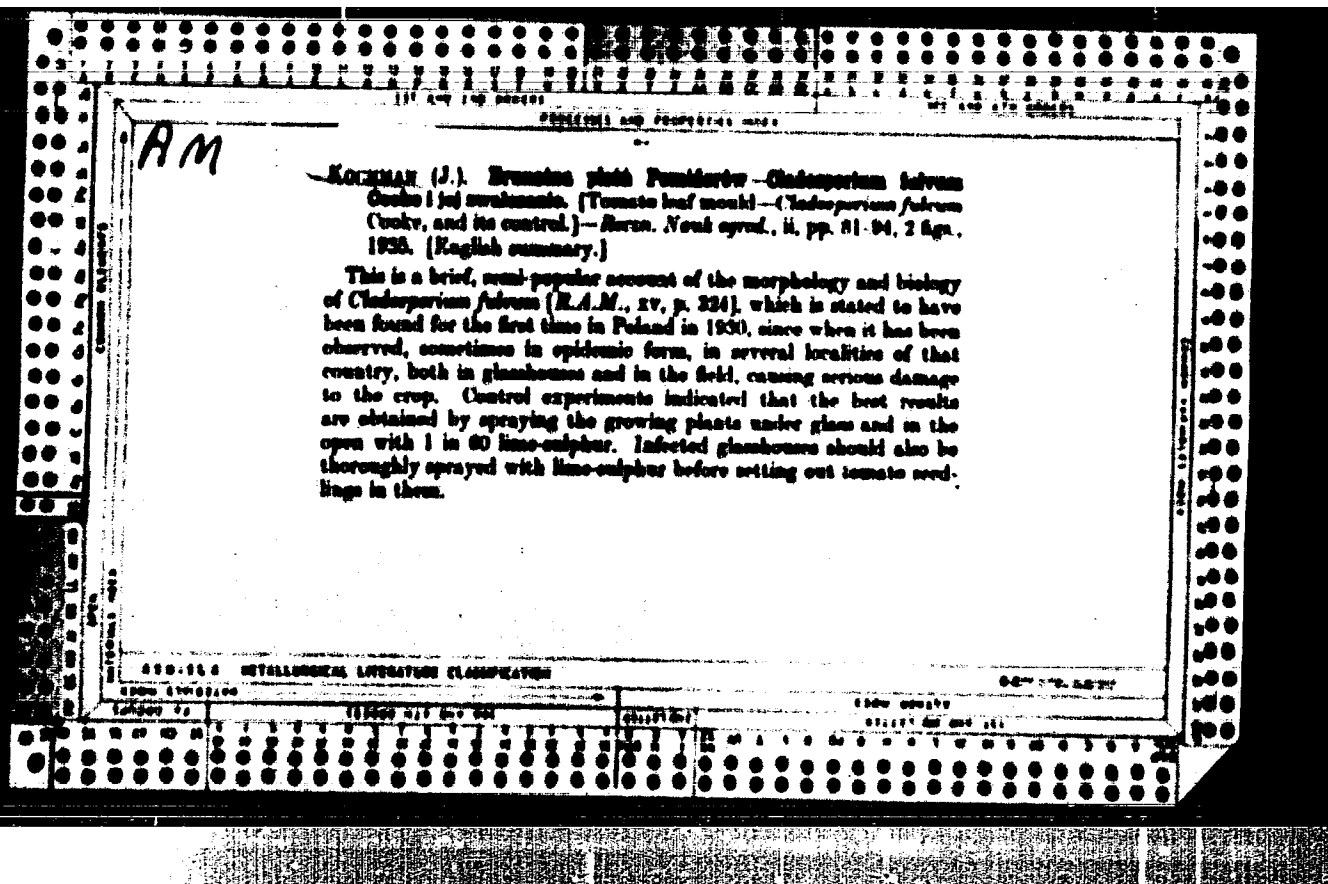
Artificial inoculation experiments indicated that the species *Helic alba*, *H. Mania*, and *H. babingtoni* are particularly susceptible to rust, while *H. conopsea*, *H. purpurea*, and *H. ruscicola* and their varieties exhibited marked resistance under the conditions of the experiments. The disease can be best controlled by spraying the willows with 1 per cent. Bordeaux mixture.

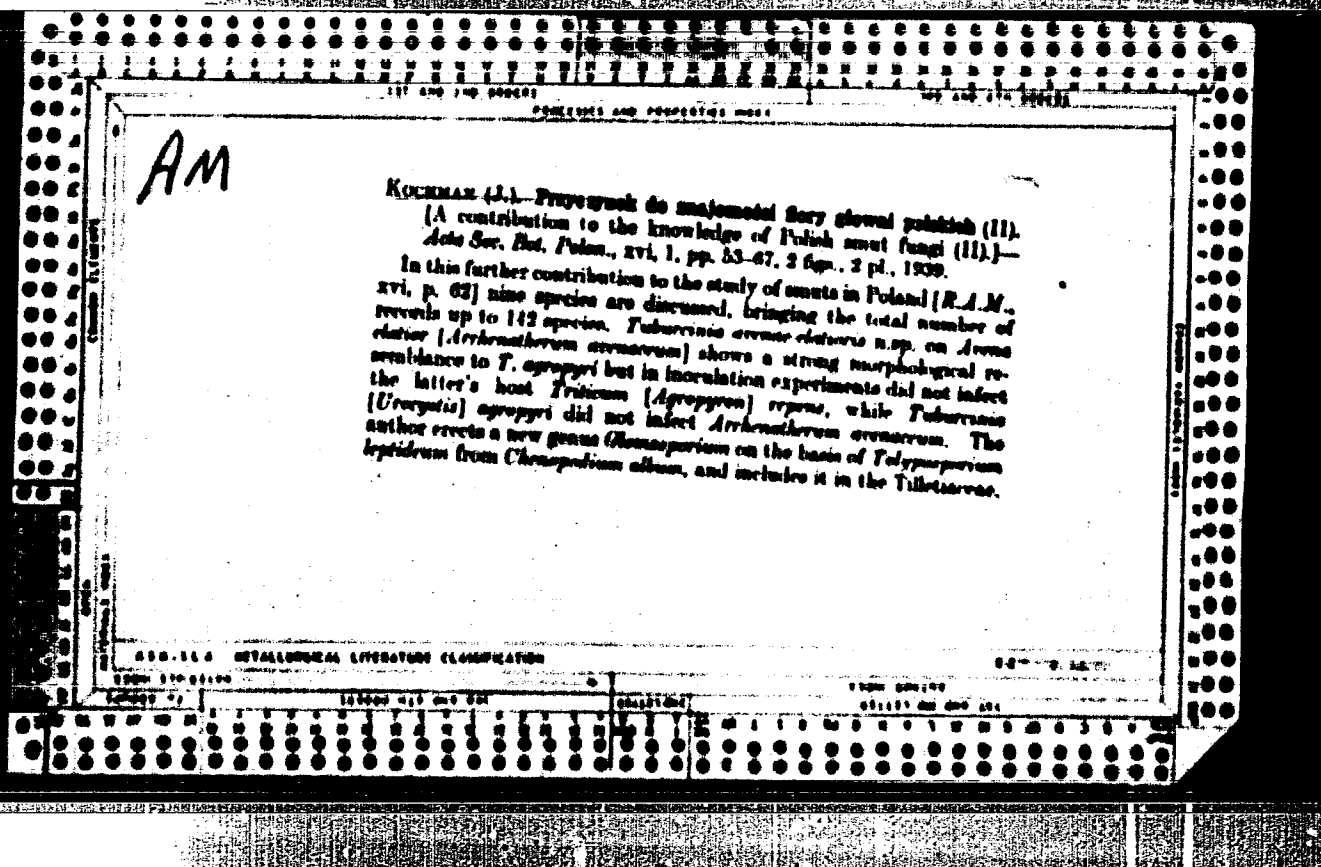
A brief note is appended on *Phycoloma mytilorum*, [*ibid.*].

vol. p. 224 and *Fusicladium* introduced by Schwaen which were also found attacking willow plantations either alone or in association with *P. adspersionis*, and both of which behaved as parasites on this









KOCHMAN, J.

Fight orchard pests and diseases in autumn. p. 28. (PLOW. Vol. 4, no. 11, Nov. 1953.)

SO: Monthly List of East European accessions, L.C., Vol. 3, No. 4, April, 1954.

KOCHMAN, J.

Poradnik ochrony roślin. Wyd. 2, popr. i usup.  
Warszawa, Państwowe Wydawn. Rolnicze i Leśne, 1955. 223p.  
Poland/

Monthly List of East European Accessions Index (KEAI), LC, Vol. 8, no. 6, June 1959  
Uncl.

Plant Diseases. General Problems.

ABS. JOUR.: Kef Zhar-Biologiya, No. 5, 1959, No. 20595

AUTHOR : Kochman, Jozef; Stachyra, T.

INST. : Not given

TITLE : Data on Virus Diseases of Plants in Poland

ORIG. PUB.: Rozn. nauk rolniczych, 1957, A77, No.2, 297-335.

ABSTRACT : There are 105 virus diseases of agricultural crops described which are caused by 55 species of viruses, 11 of which are new to science.

END: 1/1

KOCHMAN, Jozef; STACHYRA, Tadeusz

Source materials on the knowledge of plant virus diseases in Poland.  
Roczn. nauk roln. rosl. 81 no.2:287-301 '60. (KEAI 9:11)

1. Zaklad Fitopatologii Szkoly Glownej Gospodarstwa Wlajskiego.  
(Poland--Viruses)

KOCIBIAN, Josef

On Peronospora newly observed in Poland. Acta agrobotanica 9 no.2:  
89-97 '60.

1. Zaklad Fitopatologii, Szkola Glowna Gospodarstwa Wiejskiego,  
Warszawa.

KOCHMAN, Josef

Tobacco downy mildew (*Peronospora tabacina* Adam.) in Poland. Postępy nauk roln 8 no.2:75-82 Mr-Apr '61.

1. Zakład Fitopatologii, Szkoła Główna Gospodarstwa Wiejskiego, Warszawa.



KOCHMAN, J., prof. dr; BAJAN, G.

Observations on overwintering perithecia of apple powder mildew  
*Podosphaera leucotricha* (Kll. et Ev.) Salm. Acta agrobot 12:  
5-12 '62.

1. Pracownia Fitopatologiczna, Zaklad Ekologii, Polska Akademia  
Nauk, Warszawa, Kierownik: prof. dr J. Kochman.

KOCHMAN, J.; KSIĄŻEK, D.

Studies on the communication of viruses of aster yellows and onion yellows dwarf by *Macrostelus laevis* Rib. Acta agrobot 16:145-156 '64.

1. Laboratory of Phytopathology of the Institute of Ecology of the Polish Academy of Sciences, Warsaw. Submitted March 31, 1964.

POINT

M. KASPRZYK, L. KOCISZKO and L. PASS, Department of Biochemistry,  
University of Warsaw (Katedra Biochemii, Uniwersytet Warszawski).

'The Constituents of Peony Flowers (*Paeonia albiflora* Pall.). Iatrolicum  
Other Extractives.'

Warsaw, Bulletin de l'Académie Polonaise des Sciences, Serie des  
Sciences Biologiques, Vol 10, No 11, 1962; pp 457-461.

Abstract [English article]: Four compounds were isolated from dried  
petals of 3 varieties: 1 is probably 13-methyl-myristic acid, 2 beta-  
sitosterol, 3 pentacosan, and 4 an as yet unidentified oily substance.  
Four infrared spectra, 2 tables, analytical data; 7 testern references.

-1/1

SZEWICZUK, A.; KOCHMAN, M.; BARANOWSKI, T.

Dipeptide nitriles as substrates for colorimetric determination of aminopeptidases. Acta biochim. Pol. 12 no.4:357-367 '65.

1. Department of Biochemistry, Institute of Immunology and Experimental Therapy, Wrocław, Polish Academy of Sciences, and Department of Biochemistry, Medical School, Wrocław.

**MASTALERZ, P.; WIECZOREK, Z.; KOCHMAN, M.**

Utilization of carbon-bound phosphorus by microorganisms. *Acta Biochim. Pol.* 12 no.2:151-156 '65

1. Department of Organic Chemistry, Institute of Technology, Wrocław; Department of Mycology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław; and Department of Physiological Chemistry, Medical School of Wrocław.

BARANOWSKI, T.; KOCIMAN, M.; NOWAK, K.; SIEMION, I.

Modification of protein structure by means of azlactones.  
Bul Ac Pol biol 11 no.3:107-111 '63.

1. Department of physiological Chemistry, School of Medicine,  
Wroclaw and Department of Biochemistry, Institute of  
Immunology and Experimental Therapy, Wroclaw, Polish Academy of  
Sciences.

BARANOWSKI, T.; KOCHAN, M.; SZEWCZUK, A.

Precipitation of nucleic acids by tannin. Bul. Ac Pol biol  
11 no.3:113-118 '63.

1. Department of Biochemistry, Institute of Immunology and  
Experimental Therapy, Wroclaw, Polish Academy of Sciences.  
Presented by T. Baranowski.

KOCHMAN, Marian;; MASTALEK, Przemyslaw; WOLNA, Elzbieta

Phosphonic acids — a new group of competitive inhibitors of intestinal alkaline phosphatase. Arch. immun. ther. exp. 12 no.1:106-112 '64.

1. Department of Biochemistry, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław;  
Department of Organic Chemistry, Wrocław Polytechnical Institute.

\*



KOWARZYKOWA, Zofia; ZARZYCKI, Jan; KARPIAK, Stanisław Z. KOWALEWSKA,  
Danuta; KOCHEMAN, Marian; PIETZ, Alina; CZECHOWICZ, Kazimierz.

The metabolic gradient of the development of the embryonic  
chick heart. Postępy hig.med.dow. 17 no.6:689-698 H-D'63.

1. Z Instytutu Immunologii i Terapii Doświadczalnej PAN im.  
L.Hirszfelda we Wrocławiu.

\*

BARANOWSKI, Tadeusz; DŁUGAJCZYK, Achilles; KOCHMAN, Marian

Phosphorus esters of normal and neoplastic tissues during glycolysis and respiration. Arch.immun.ter.dosw. 7 no.4:725-741 '59.

(NEOPLASMS metab.)

(PHOSPHATES metab.)

KOWARZYKOWA, Zofia; ZARZYCKI, Jan; KARPIAK, Stanislaw E.; KOWALEWSKA, Danusia;  
KOCHMAN, Marian; PERIT, Alina; CZECHOWICZ, Kazimierz

The metabolic gradient in the development of embryonic chick heart.  
Acta med. Pol. 4 no.4:351-360 '63.

1. Institute of Immunology and Experimental Therapy, Polish Academy  
of Sciences, Wrocław. Director: S. Słepak.

KOCHMAN, V.A.

Maximum sensitivity of an ordinary balanced bridge. Izv. tekhn.  
no. 3:36-39 Nr '59. (MIRA 12:4)

(Wheatstone bridge)

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Kochmanski T., Dr.

Kochmanski T., Dr. Eng. "Vertical and Horizontal Movement of Soil due to Undermining." (Przesunięcia terenu w pionie i poziomie pod wpływem osiadłości górnictwa). Hutnik, No. 7-8, 1949, pp. 279-296, 2 tabs.

The author reviews the theoretical principles for computing the extent of subsidence and horizontal movement as functions of the individual factors influencing them. These principles enable the determination at all times of the stresses in the workings, under the influence both of the work actually completed and that intended. In this manner it is possible to plan workings which are not likely to cause major damage to buildings. The author further deals with the method of work connected with measuring and computing, as adopted by one of the collieries. The movements of soil determined show a curve on the graph which is in conformity with the curves referred to in the literature of the subject, although their range was considerably greater.

SO: Polish Technical Abstracts - No. 2, 1951

89-54 LL

math

Mathematical Reviews  
Vol. 14 No. 9  
October 1968  
Analysis

Kochmański, T. Operations with multidimensional series.  
Arch. Mat. Appl., Gdańsk 9, 293-343 (1951). (Polish.  
Russian summary)

KOCHMAŃSKI, T.

"Nicolaus Copernicus as a Signpost for Polish Science." p.285  
(PRZEGLĄD ODLEWNICTWA Vol. 3, no. 10, Oct. 1953 Krakow, Poland)

SO: Monthly List of East European Accessions. LC, Vol. 3, no. 5, May 1954/Uncl.



KOCHMANSKI, T.

Fundamentals of the origin and formation of soils. p. 169.  
Vol. 1, no. 2, 1955 Warszawa

SERIA B: PRZYROD A NEOZYWIONA

SOURCE: East European Accession List (EEAL) Library of Congress  
Vol. 5, no. 6, August 1956

KOCIMANSKI, T.

Integral theory of the movement of strata over mining deposits  
based upon geodetic measurements. p. 115.

GEODEZJA I KARTOGRAFIA, Vol. 4, no. 2, 1955.

POLAND

SOURCE: EAST EUROPEAN ACCESSIONS LC Vol. 5, August 1956.  
no. 7,

KOCHMANSKI T.

KOCHMANSKI, T. Theory of rock behavior over mined horizontal seams. p. 29.

No. 1, 1956

GEODEZJA

SCIENCE

Warsawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

KOCHANSKI, TADEUSZ.

Nouvelles theories des calculs tabulaires.

Varsovie, Poland. Palac Kultury i Nauki, 1957, 9p.

Monthly List of European Accessions (MEA) LC, Vol. 8, no. 7, July 1959

Uncl.

KOCHANSKI, Tadeusz, prof., dr., inż.

A discussion. Przegl gór 17 no.7/8:433 J1-Ag '61.

LITWINISZYŃ, J., prof., dr., ins.; KOCHMAŃSKI, T., prof., dr., ins.

A discussion on the article "Development of problematics of the influence of mining operations on the movements of rocks of the earth crust " by Jerzy Litwinissyn. Przegl gorn 18 no.2:138'62.

KOCHMANSKI, Tadeusz, prof. dr. inz.; WEDZONY, Jozef, dr. inz.

Corrections and remarks on J.Haligowski and E.Romanowicz's article  
"On the deformations of the rocks, the surface and the shaft  
tube as result of the exploitation of the shaft pillar." Przegł  
gorn 18 no.6:367 Je '62.

KOCHMAŃSKI, T., prof.dr inż.

The role of academic schools in the development of the invention movement. Przegl techn no.43:5,9 28 0 '62.

1. Rektor Akademii Górniczo-Hutniczej, Krakow.



KOCHANSKI, Tadeusz

Remarks on Prof. Stefan Hausbrandt's article: "On the possibility of employing the achievements of mathematical statistics for the determination of the exactness of engineering measurements."  
Geod 1 kart 9 no.3/4:209-210 '60.

NOVIKOV, F.; ZYUBIN, I.N., veter. vrach; KOCHMAR, A.G., veter. vrach  
(Zolotonoshskiy rayon, Cherkasskoy oblast)

From work practices in the prophylaxis of sterility in cows.  
Veterinariia 42 no.11:72-77 N '65.

(MIRA 19:1)

1. Direktor Rovenskoy oblastnoy veterinarnoy polikliniki (for  
Novikov). 2. Kalacheyevskaya stantsiya po bor'be s boleznyami  
zhivotnykh, Veroneshskoy oblast (for Zyubin).

STANDARD, Vol. 1, inch.

loading conditions of electric drives of large-capacity belt  
conveyors. Izv. vyz. ucheb. zav.; gor. zhur. 7 no.11:135-139  
'64. (MIRA 18:3)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki. Rekomendovana kafedroy elektrifikatsii promyshlennykh predpriyatiy.

ZAK, I.D., insh.; KOCHMAROV, V.A., insh.

Automatic switching-out of purifying filters for rinsing.  
Elek.sta. 31 no.4:77-78 Ap '60. (MIRA 13:7)  
(Filters and filtration) (Feed-water purification)  
(Automatic control)

KOCHMAROVA, L. I.

USSR / Pharmacology, Toxicology. Analeptics. v

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85138.

Author : ~~Kochmarova, L. I.~~

Inst : Not given.

Title : The Influence of Lemon and of Ginseng on the Processes of Concentration.

Orig Pub: In the collection, Materialy k izuch. zhen'shenya i limonika, No 3, Leningrad, 1958, 12-17.

Abstract: Studies were made of the influence of ground lemon seeds (L) in doses of 2 gm, and of an extract of the root of the ginseng (G) in doses of 2 ml, on processes of concentration (crossing out of certain letters in a page of text). Experiments with L were carried out on a group of 59 persons, and tests with G were carried out on a group of 63 subjects. L and G facilitated the organization of

Card 1/2

AL'TMAN, R.S. [deceased]; KOMAROVA, A.F.; KOCHMAREVA, L.I.; AL'SHEVSKAYA,  
Z.T.; MATITSINA, Ye.L.

Sanitary and epidemiological characteristics of dysentery in the  
city of Khabarovsk. Trudy Khab.med.inst. no.20:3-8 '60.

(MIRA 15:10)

1. Iz kafedry gigiyeny Khabarovskogo meditsinskogo instituta  
(sav. A.F.Komarova).

(Khabarovsk---Dysentery)

YESIKOV, S.Ye.; KOCHMAIEVA, Ye.A.

Cutting conditions in machining screw threads with four cutting  
tools in one operation. Stan.1 instr. 32 no.11:31-32 H '61.  
(Screw cutting) (MIRA 14:10)

Kochmarskiy, A. P.

Kochmarskiy, A. P. - "A Comparative Evaluation of the Therapeutic Effect of Certain Antibiotics and Norsulfazol in Infectious Vaginitis and Balanitis of Cattle." Min Higher Education USSR. Khar'kov Veterinary Inst. Khar'kov, 1956 (Dissertation for the Degree of Candidate in Veterinary Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127



USSR/Diseases of Farm Animals - Diseases Caused by Bacteria  
and Fungi.

R-2

Abs Jour : Ref Zhur - Biol., No 14, 1958, 64617

Author : Kochmar'skiy, A.F.

Inst :

Title : ~~Diagnosis and Treatment~~ of Infectious Balanoposthitis .

Orig Pub : Sots. tvarinnitstvo (Sots. zhivotnovodstvo), 1957, No 6,  
45-46.

Abstract : The bulls under investigation were anesthetized by the introduction of 60 to 100 ml. of a 2% solution of novocaine into the pararectal region, on both sides. With the onset of anesthesia, scrapings from the mucous membrane of the prepuce, and washings from the urethra, were taken and subjected to microscopic and bacteriologic analysis. For the treatment of balanoposthitis, sanazin (injection of 10 to 20 ml. of 2% solution submucosally and introduction of oil emulsion of sanazin 1:250 into the urethra)

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- 2 -

'USSR/Diseases of Farm Animals - Diseases Caused by Bacteria  
and Fungi.

R-2

Abs Jour : Ref Zhur - Biol., No 14, 1958, 64617

was used in combination with novocaine anesthesia.  
This treatment produced positive results both in acute  
and chronic forms of balanoposthitis.

Card 2/2

YELSHIN, K., inzh. (Ufa); BRONSHTKYN, I., inzh. (Ufa); SHESTAKOV, V., slesar' (Khar'kov); D'IACHENKO, B., slesar' (Khar'kov); SHECHUKLIN, F., inzh.-tekhnolog (Ishevsk); KOCHMOLA, G., inzh.; KHRAMKOV, V., inzh.-konstruktor (Ous'-Khrustal'nyy); GREYSMAN, A. (Kaltan, Kemerovskaya obl.); SUDNIKOV, V.I. (Verkhniy Ufaley)

Advertising board. Isobr.i rats. no.9s34 S '62. (MIRA 16:3)

1. Darnitskiy vagonoremontnyy zavod (for Kochmola).  
(Technological innovations)

<p><b>KOCHNER, M.</b></p>		<p><b>26</b></p>	
<p><b>Vapor Pressure of Silicon Monoxide. (In Russian.) P. V. Gelf and M. I. Kochner. Doklady Akademii Nauk SSSR (Reports of the Academy of Sciences of the USSR), v. 61, Aug. 1, 1948, p. 648-650.</b></p>			
<p><b>Investigation the above for synthetic silicon oxide. A method of production of the above oxide, and the apparatus for vapor-pressure determination, are described. Results are tabulated and charted.</b></p>			
<p><b>DETAILS OF LITERATURE CLASSIFICATION</b></p>			
<p><b>1. SUBJECT</b></p>		<p><b>2. SOURCE</b></p>	
<p><b>3. DATE</b></p>		<p><b>4. PAGE</b></p>	
<p><b>5. AUTHOR</b></p>		<p><b>6. TITLE</b></p>	
<p><b>7. ABSTRACT</b></p>		<p><b>8. COMMENTS</b></p>	

KOCHEV, A.A., starshiy prepodavatel'

Professor S.S.Klenevskii's 80th birthday. Zhivotnovodstvo 23  
no.6:88 Je '61. (MIRA 16:2)

1. Ul'yanskiy sel'skokhozyaystvennyy institut.  
(Klenevskii, Sergei Semenovich, 1881-)

KOCHNEV, A.O.

Solar water heaters. Trudy UsGu no.117:19-25 '62.

(Solar water heaters)

(MIRA 16:7)

KOCHNEV, A.P.

Orientation of spodumene in the pegmatites of Eastern Siberia.  
Zap. Vses. min. ob-va 93 no.1:46-53 '64 (MIRA 18:2)

YEFIMOV, Yevgeniy Aleksandrovich; YERUSALIMCHIK, Iosif Grigor'yevich;  
KOCHNEV, A.T., red.; KOGAN, V.V., tekhn. red.

[Electrochemistry of germanium and silicon] Elektrokhimia  
germaniya i kremniya. Moskva, Goskhimizdat, 1963. 180 p.  
(MIRA 1615)

(Electrodes, Germanium) (Electrodes, Silicon)



DEMBO, Anna Ruvimovna, kand. tekhn. nauk; KOZHEVNIKOV, Vladimir  
Arsen'yevich, kand. tekhn. nauk; KOCHNEV, Anatoliy  
Vasil'yevich, inzh.; PRUSS-ZHUKOVSKIY, Vladimir  
Vladimirovich, inzh.

[Parameters of the modern traction motors for electric  
and autonomous locomotives] Parametry sovremennykh tia-  
govykh dvigatelei elektrovozov i avtonomnykh lokomotivov.  
[By] A.R. Dembo i dr. Moskva, Nauka, 1964. 146 p.

(MIRA 17:11)

1. Leningrad. Institut elektromekhaniki.

KOZHEVNIKOV, V.A., inzh.-KOCHNEV, A.V., inzh.

Choice of the characteristics of the air gap of a d.c.  
machine with given regulatory characteristics. Vest.  
elektrom. 32 no.4:35-40 Ap '61. (MIRA 15:5)  
(Electric railway motors)  
(Magnetic circuits)

ALEKSEYEV, A.Ye.; VASIL'YEV, V.A.; DEMBO, A.R.; KOZHEVNIKOV, V.A.; KOCHNEV, A.V.

Premises and features of the standardization of the traction motors of diesel locomotives and single-phase d.c. locomotives. Stor.rab.pe vop. elektromekh.no.8:327-336 '63.

(Electric locomotives)

(Diesel locomotives)

(MIRA 16:5)

KOCHEV, D.

Helicopter in the mountains. Zdorov's 7 no.12:9 D '61. (MIRA 14:12)  
(AERONAUTICS IN MEDICINE)

REZIN, M.G.; DROPACHEV, G.P.; DROBININ, Ya.I.; KOCHNEV, E.K.; GOLUBEV, N.S.

"Electromagnetic metal mixing in steel smelting furnaces" by  
N.V. Okorokov. Reviewed by M.G. Rezin and others. Elektrichestvo No. 3:  
95-96 Mr '63. (MIRA 16:4)  
(Electric furnaces) (Electromagnets) (Okorokov, N.V.)

KOCHNEV, E.K., insh.; KONOVALOV, Ye.D., insh.

Desulfuration of liquid cast iron by means of electromagnetic stirring. Mashinostroenie no.3:42-43 My-Je '63.

(MIRA 16:7)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.  
(Cast iron—Metallurgy)  
(Desulfuration)

REZIN, M.G.; KROPACHIN, O.P.; BURIN, L.V.; SMOLYEV, S.V.; SMOLNOV, O.P.;  
OSTKHOVSKIY, I.G.; IROBININ, Ya.I.; KOCHNEV, N.K.; MILATKINA, R.N.  
PARAMONOVA, Ye.I.; LIKHACHEV, M.N. [deceased].

"Electric engineering." A.S. Kasatkin, M.A. Forekalin. Reviewed by M. G.  
Rezin and others. Elektrichestvo no.7:94-95 J1 '57. (NIRA 10:8)  
(Electric engineering)  
(Kasatkin, A.S.) (Forekalin, M.A.)

RENOVATION, R.D. - KENNEDY, R.F.

Testing results and steps of preparing a non-operational plant for  
deciphering should first be done by means of electromagnetic stirring.  
See slide no. 3134-211. (MIR 18:30)



8 (5)

AUTHOR:

Kochnev, E. K., Engineer

SOV/105-59-7-20/30

TITLE:

On the Theory of Devices for the Electromagnetic Mixing of Molten Metal (K teorii ustroystv dlya elektromagnitnogo peremeshivaniya rasplavlennogo metalla)

PERIODICAL:

Elektrichestvo, 1959, Nr 7, pp 75-78 (USSR)

ABSTRACT:

The present paper is published by the editors of the periodical for the purpose of correcting errors which occurred in the articles by G. S. Vaynberg (deceased) published in the same periodical (Refs 3, 4). The theory developed in these articles (Refs 3, 4) concerning devices for the electromagnetic mixing of metals, with the mixer placed on the outside, contains a large number of errors and cannot be used for the calculation of such devices. The selection of the optimum parameters of mixing must be made in consideration of the screening effect of the bottom of the furnace. As far as possible the highest values must be attained for the total degree of efficiency, the  $\cos \varphi$  of the device, the power output, and the moment, which act upon  $1 \text{ cm}^2$  of the molten metal, and care must be taken that a high angular momentum is retained within a wide range of velocity variation of the metal. The opinion

Card 1/2

On the Theory of Devices for the Electromagnetic  
Mixing of Molten Metal

SOV/105-59-7-20/30

expressed by G. S. Vaynberg that industrial frequency may be used for supplying the mixers is wrong. It is more rational to mix with low frequencies with the highest possible induction on the stator surface. The theory mentioned (Refs 3, 4) may be used by taking all corrections mentioned into account for the purpose of calculating and selecting optimal parameters of mixers mounted within the furnace lining or between the furnace lining and the bottom of the furnace. Mounting in this manner is possible and reduces the costs of investment and the cost of operation. There are 2 figures and 4 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. Kirova  
(Ural Polytechnic Institute imeni Kirov)

SUBMITTED: November 24, 1958

Card 2/2

KROPACHEV, G.P., dotsent, kand. tekhn. nauk; REZIN, M.G., dotsent, kand.  
tekhn. nauk; DROBININ, Ya.I., assistant; GOLUBEV, N.S., assistant;  
PENYAZ'KOVA, V.P., assistant; KOCHNEV, E.K., starshiy prepodavatel'

Electromagnetic stirring and pumping over of molten steel.  
Sbor. nauch. trud. Ural. politekh. inst. no.122:226-233 '61.  
(MIRA 17:12)

1.14243-66 EWT(m)/EWA(d)/EWP(t)/EWP(a)/EWP(b) IJP(a) JD

ACC NR. AP3024914

UR/0382/65/000/003/0139/0144

AUTHOR: Konovalov, K.D.; Kochnev, B.K.

ORG: None

TITLE: Results of tests and approaches to the optimization of an external to the blast furnace installation for the removal of sulphur from cast iron by electrical stirring. 16  
13

SOURCE: Magnitnaya gidrodinamika, no. 3, 1965, 139-144

TOPIC TAGS: metal refining, cast iron refining, cast iron desulphurization, electromagnetic chemical refining, magnetohydrodynamic stirring

ABSTRACT: Research on cast iron desulphurization by chemical additives and electrodynamic stirring is discussed. AC electromagnets were utilized for stirring. The frequency used was 50 c/s; the initial sulphur content of the pig iron was between .08% and .14%. mixtures of Al, CaF and CaO, Fig.1; NaCl, - Fig. 2; and Na<sub>2</sub>CO<sub>3</sub>, - Fig 3, were tried. Up to around 60% of sulphur could be removed. Analysis, observations and experiments with a mercury similitude model point to 26 c/s as the optimum frequency. Heating of the desulfurator/iron interface is considered necessary. Electrical features of the power supply and of the controls are given. Orig. art. has 6 figs, 1 table. Figures on card 2/2.

Card 1/2

UDC 669.162.267.6 + 538.4

L 14243-66

ACC NR: AP5024914

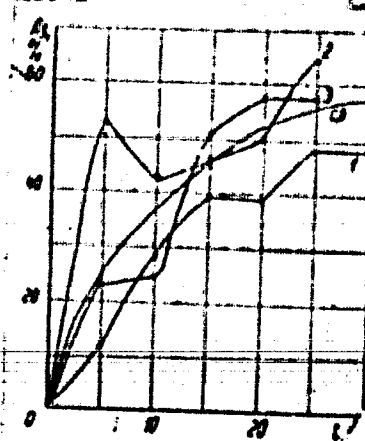
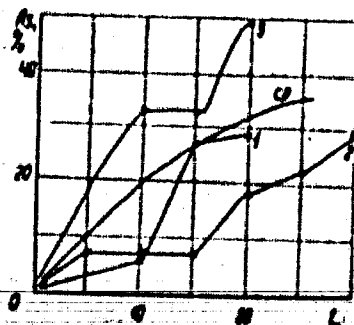
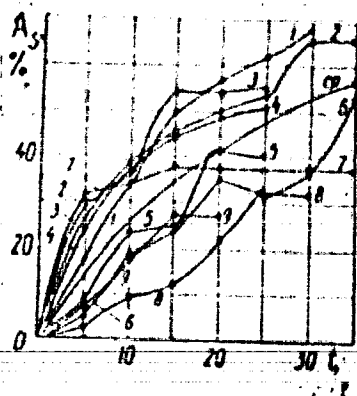


Fig. 1.  $A_s$  - % sulphur removed as a function of time (min). 9 tests; (Al, CaF, CaO) .5., 1.0 and 6.0 kg/ton each

Fig. 2.  $A_s$ , using NaCl 1-4kg/ton; 2 - 8kg/ton 3 - 12kg/ton. cp  $\approx$  aver.

Fig. 3.  $A_s$ , using  $Na_2CO_3$  1 - 6kg/ton; 2 & 3 - 8kg/t.

SUB CODE: 13, 11/

SUBM DATE: none/

ORIG REF: 004

CC

Card 2/2

KOCHNEV, E.K.; REZIN, M.G.

Electromagnetic processes in molten metal-mixing systems.  
Trudy Ural. politekh. inst. no.124:105-117 '62.

(MIRA 16:8)

KOCHNEV, Eval'd Kus'mich, starshiy prepodavatel'; REZIN, Mikhail  
Grigor'yevich, kand.tekhn.nauk, dotsent

Study of devices for electromagnetic transportation of molten  
metals. *Izv.vys.ucheb.zav.; elektromekh.* 5 no.9:963-973 '62.  
(MIRA 16:1)

1. Kafedra obshchey elektrotekhniki Ural'skogo politekhnicheskogo  
instituta (for Kochnev). 2. Kafedra elektricheskikh mashin  
Ural'skogo politekhnicheskogo instituta (for Resin).  
(Liquid metals)

REZIN, M.G., kand.tekhn.nauk, dotsent; KROPACHEV, O.P., kand.tekhn.nauk,  
dotsent; DROBININ, Ya.I., inzh.; KOCHNEV, E.K., inzh.;  
GOLUBEV, N.S., inzh.; MASHKAUTSAN, V.V., inzh.

"Physical and mathematical principles of magnetic transportation  
of molten metals" by G.A. Ostroumov. Reviewed by M.G. Resin and  
others. Elektrichestvo no.7:91-93 JI '62. (MIRA 15:7)  
(Liquid metals)  
(Ostroumov, G.A.)



KOCHNEV, E.K.

Pilot plant equipment for the electromagnetic stirring of liquid iron in the ladle for sulfur removal purposes. Trudy Ural. politekh. inst. no.133:35-44 '63.

Selecting the optimal size of the equipment required for electromagnetic stirring and conveying of liquid metals. Ibid. 59-67 (MIRA 17:9)

ACCESSION NR: AT4042314

S/0000/63/003/000/0363/0370

AUTHOR: Kochnev, E.K.

TITLE: A pilot installation for the removal of sulfur from liquid cast iron outside the blast furnace by means of electromagnetic mixing at the Serov Metallurgical Combine

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, Riga, 1962. Voprosy\* magnitnoy gidrodinamiki (Problems in magnetic hydrodynamics); doklady\* soveshchaniya, v. 3. Riga, Izd-vo AN LatvSR, 1963, 363-370

TOPIC TAGS: cast iron, desulfurization, electromagnetic mixing, steel production, blast furnace

ABSTRACT: The author discusses the pilot installation developed at the Serovskiy metallurgicheskoy kombinat im. A.K. Serova (Serov Metallurgical Combine) by workers of the Ural'skiy politekhnicheskiy institut (Ural Polytechnical Institute), jointly with the personnel of the combine, for the purpose of experimentally verifying and developing the new method of desulfurization of liquid cast iron outside the blast furnace. The essence of the new method is the electromagnetic mixing of the liquid cast iron in the ladle, thus ensuring a close and protracted interaction of the liquid cast iron with the reagents, present

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ACCESSION NR: AT4042314

on its surface, which effect the removal of the sulfur. The authors discuss both the general advantages of cast iron desulfurization outside the blast furnace and the specific advantages of the new method as compared to the rotating drum method. Among the latter are the fact that the proposed method best fits into the existing technological routine of metallurgical production, the recasting operations of the liquid cast iron are eliminated, cooling, oxidation and cast iron losses are reduced, etc. The design and the operational principles of the installation are described in some detail. Fundamentally, the latter consists of a 700-kg capacity lined ladle, two planar three-phase stators for the generation of travelling magnetic fields, and a control bay at which the proper switching operations of the coils are carried out for the measurement of the direction of the travelling magnetic fields of the stators. A separate section of the paper deals with the construction and design of the planar stator. The author claims that the optimal mixing effect in the ladle, when operating with a 50-cycle power supply, is achieved at the following ratios:

$$\frac{\tau}{\delta} \approx 3.5; \quad \frac{\tau}{c} \approx 2, \quad (1)$$

where  $\tau$  is the polar division;  $\delta$  is the non-magnetic "clearance" between the stators and the liquid cast iron; and  $c$  is the axial length of the stator. In order to determine the

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ACCESSION NR: AT4042314

effectiveness of the new method for desulfurizing cast iron in the liquid state, experiments were conducted in which a study was made of the effect of the quality and speed of movement of the liquid iron, the material of the reagent and the degree of its refinement on the removal of the sulfur. The experimental data shown in Fig. 1 of the Enclosure confirm the advisability of employing the new method on an industrial scale. Efficient mixing of liquid cast iron was achieved with a current at the normal industrial frequency, producing rates of movement of 0.8 m/sec. at 60 amps. and 1.5 m/sec. at 110 amps. Due to heat losses, however, mixing could not be continued beyond 30 minutes, at which time desulfurization was not yet maximal. On an industrial scale, working with currents at 2-6 cps, the power requirements would be 6-10 kwh/metric ton. Future design of such installations should take into consideration the finite thickness of the liquid metal, boundary effects, the non-uniformity of the "clearance" between the stators and the liquid metal, unevenness in the speed of movement of the liquid metal and other factors. As an appendix to the article, there is a listing of the technical specifications of the stator. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 04 Dec63

ENCL: 01

SUB CODE: MM

Cord 3/5

ACCESSION NR: AT4042314

NO REF SOV: 000

OTHER: 000

4/6  
Card

KOCHNEV, F. P.

Maistnikovoe dvizhenie prigorodnykh poezdov. [Regularity of suburban train movement]. (Zheldor. transport, 1947, no. 6, p. 75-78).

DLC: HE7.25

Maistnikovoe dvizhenie prigorodnykh poezdov. [Regularity of suburban train movement]. Moskva, Gos. transp. zhel-dor. izd-vo, 1948. 26 p. diagrs.

DLC: TF653.K6

Organizatsiia passazhirskikh perevozok na zheleznodorozhnom transporte. [Organisation of passenger traffic in railroad transportation]. Utverzhdeno v kachestve uchebnika dlia studentov transportnykh tekhnikumov. [Redatory: A. A. Arkhangel'skii, B. A. Dlugach]. Moskva, Gos. transp. zhel-dor. izd-vo, 1950. 330 p.

DLC: TF653.K62

Passazhirskie perevozki na zheleznykh dorogakh. [Railroad passenger traffic]. Moskva, Transzheldorizdat, 1948. 455 p.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952. Unclassified.

KOCHEV, F. P., (Docent) Dr. Tech. Sci.

Dissertation: "Scientific Principles for Organization of Passenger Traffic on Railroads of the USSR." Moscow Order of Lenin Inst. of Railroad Engineers, named I. V. Stalin, 18 Jun 47.

SO: Vechernyaya Moskva, Mun, 1947 (Project #17836)

KOCHNEV, P. P.

Printsipy organizatsii raboty voksalov. (Principles of organization of station work). (Zhel-dor. transport, 1948, no. 9, p.61-68, diagrs.). DLC: HE7.Z5

80: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.



KOCHNEV, P. P.

Passazhirskie stantsii i vokzaly. (Passenger stations and terminals). Moskva, Gos. transp. shel-dor. izd-vo, 1960. 359 p. illus.

DLC: T7652.K6

80: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1962. Unclassified.

KOCHNEV, F.F.

[Passenger traffic on railroads] Passazhirskie perevoski na shozhnykh  
dorogakh. 1ed.2., perer. Dopushcheno v kachestve uchebnika dlia vusov  
Ministerstva puti soobshcheniia. Moskva, Gos. transp. shel-dor. 1ed-vo,  
1952. 328 p. (MIRA 615)  
(Railroads - Passenger traffic)

GRINEVICH, G.P., doktor tekhnicheskikh nauk, professor; KOCHNEV, V.P.,  
doktor tekhnicheskikh nauk, professor; TIKHOMIROV, I.O., kandi-  
dat tekhnicheskikh nauk, dotsent.

Methods of improving the utilization of rolling stock. Trudy MIIT  
no.79:5-28 '53. (MLBA 8:5)  
(Railroads--Rolling-stock)

**KOCHNEV, Fedor Petrovich**, professor, doktor technicheskikh nauk; **BLUDACH, P.A.**, redaktor; **KHITROV, P.A.**, tekhnicheskiiy redaktor

[Principles of efficient organisation and utilisation of hidden resources in passenger traffic] Osnovy ratsional'noi organizatsii i rezervy passazhirskego dvizheniya. Moskva, Gos. transportnoe shet-dor. izd-vo, 1955. 131 p.  
(Railroads--Passenger traffic) (MLBA A:6)

OSBRETSON, V.M., 1874-1949; SHAUL'SKIY, F.I., doktor tekhnicheskikh nauk, professor; ZEMELINOV, S.V., doktor tekhnicheskikh nauk, professor; SOSKOVICH, V.A., doktor tekhnicheskikh nauk, professor; [deceased]; NIKITIN, V.D., doktor tekhnicheskikh nauk, professor; KOCHNEV, F.P., doktor tekhnicheskikh nauk, professor; TIKHOMIROV, N.M.; CHVACHOV, V.G., redaktor; ZELENIKOVA, Ye.O., tekhnicheskiiy redaktor

[Selected works] Isbrannye trudy. Moskva, Izd-vo Akademii nauk  
SSSR. Vol.1. 1955. 444 p. (MLRA 9:1)  
(Railroads) (Transportation)

BEMESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.M., kandidat  
 tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat  
 tekhnicheskikh nauk; GRITSHEVSKIY, M.Ye., inzhener; GRUBER, L.O.,  
 inzhener; GURVICH, V.O., inzhener; DAVYDOV, V.N., inzhener; YER-  
 SHOV, I.M., kandidat tekhnicheskikh nauk; ZASONIN, S.N., kandidat  
 tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk;  
 KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B.,  
 inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener;  
 MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV,  
 M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener;  
 OSYOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV,  
 K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M.,  
 inzhener; POPOV, I.P., inzhener; PORSHIN, B.O., inzhener; RATHER,  
 M.P., inzhener; ROSSIYEVSKIY, O.I., dotsent, kandidat tekhnicheskikh  
 nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ye.,  
 dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ye., professor  
 [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M.,  
 professor, doktor tekhnicheskikh nauk; CHERNYSHOV, M.A., doktor  
 tekhnicheskikh nauk; MBIN, L.Ye., professor, doktor tekhnicheskikh  
 nauk; YURENIN, B.N., dotsent; AKSENOV, I.Ye., dotsent, kandidat  
 tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENOV, P.V.,  
 professor, doktor tekhnicheskikh nauk; BMEZGARD, I.A., kandidat  
 tekhnicheskikh nauk; BOROVY, N.Ye., dotsent, kandidat tekhnicheskikh  
 nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh  
 nauk; VINNICHIENKO, N.O., dotsent, kandidat ekonomicheskikh nauk;  
 (Continued on next card)

REKSENVICH, I.I.---(continued) Card 2.

VASIL'YEV, V.P.; GONCHAROV, N.G., inzhener; DERIRAS, A.T., inzhener;  
 DOBROSL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH,  
 B.A., kandidat tekhnicheskikh nauk; YEFIMOV, O.P., kandidat tekhnicheskikh nauk;  
 ZEMBLINOV, S.Y., professor, doktor tekhnicheskikh nauk; ZARILLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARTNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHETV, Z.P., professor, doktor tekhnicheskikh nauk; KOZAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.P., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL', O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTILEYEV, P.I., kandidat tekhnicheskikh nauk; PERIOV, A.P., professor, doktor tekhnicheskikh nauk; POVOCHOZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKARV, I.I., dotsent, kandidat tekhnicheskikh nauk; SHEROBYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.O., inzhener; TALDAYEV, F.Ye., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, M.Ye., inzhener; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; YERAPONTOV, O.V., inzhener; KHOKHLOV, L.P., inzhener; CHERNOMORDIK, O.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAYIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.O., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.Z., dotsent kandidat tekhnicheskikh  
 (Continued on next card)

BERESHEVICH, I.I.--- (continued) Card 3.

nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K.,  
inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I.,  
inzhener, redaktor; GHEONIMUS, R.Ye., kandidat tekhnicheskikh nauk,  
redaktor; ROBNIL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheski  
spravochnik shelerodorozhnikov. Moskva, Oos. transp.shel-dor. ind-vo.  
Vol.10. [Electric power supply for railroads] Energosnabzhenie sheler-  
nykh dorog. Otv.red. tova K.G.Markvardt. 1956. 1080 p. Vol.11.  
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